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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/646,829	08/25/2003	Yoshiyuki Ohnuma	116935	1359
25944 7	590 09/28/2004		EXAMINER	
OLIFF & BERRIDGE, PLC			COONEY, JOHN M	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			1711	
		DATE MAILED: 09/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/646,829	OHNUMA ET AL.				
Office Action Guillinary	Examiner	Art Unit				
The MAILING DATE of this communication and	John m Cooney	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	<u> </u>					
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-10</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0803</u> .	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 recites the limitation "the flame retardant" in the first line. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 is not clear in the requirement of a flame retardant, but rather says a flame retardant quality is possessed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Sulzbach('527).

Sulzbach discloses preparation of rigid polyurethane foams wherein carbon dioxide is dissolved in the polyol component under pressure prior to combination with the isocyanate component and work-up with water also included in the reactive materials to achieve foams having densities as claimed (see column 1 line 47 – column

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3 line 3; and column 3 lines 37-65, as well as, the entire document). Although particulars of cell structures, contents, and permeabilities are not recited by Sulzbach's disclosure in the manner as claimed, the teaching is clear in the modulations of conditions and materials to affect cell structures and properties such that it is seen that these values of applicants' claims are inherent to the teachings of Sulzbach.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4,5,9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sulzbach as applied to claims 1-3 and 6-8 above, and further in view of Fishback et al.('533).

Sulzbach et al. differs from the claims in that it does not identify specific requirements for polyols. However, Fishback et al. discloses aromatic polyester polyols to be acceptable materials in providing isocyanate reactive functionality in rigid polyurethane foam synthesis (see column 4 lines 43-45 and 59-62, as well as, the entire document). Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the aromatic polyester polyols employed by Fishback et al. in the preparations of Sulzbach for the purpose of providing isocyanate reactive functionality to the reactive mixtures in order to arrive at the products and processes of applicants'

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claims with the expectation of success in the absence of a showing of new or unexpected results.

Sulzbach et al. differs from the claims in that it does not identify specific requirements for fire retardant additives. However, Fishback et al. discloses fire retardants to be acceptable materials in providing fire retardancy in rigid polyurethane foam preparations(see column 13 lines 36-53, as well as, the entire document). Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the flame retardants disclosed by Fishback et al. in the preparations of Sulzbach for the purpose of providing flame retardancy to the finish products in order to arrive at the products and processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JOHN M. COONEY, JE PRIMARY EXAMINEE